

PROTON CONDUCTOR

Patent number: JP2001155744
Publication date: 2001-06-08
Inventor: MORIMOTO TOMO; SUZUKI TAKANAO; TSUSAKA KYOKO
Applicant: TOYOTA CENTRAL RES & DEV
Classification:
- international: H01M8/02; B01D61/44; B01D71/82; C08K9/04; C08L101/00; C25B1/10; C25B13/08; H01B1/06; H01M8/10
- european:
Application number: JP19990336986 19991129
Priority number(s): JP19990336986 19991129

[Report a data error here](#)

Abstract of JP2001155744

PROBLEM TO BE SOLVED: To provide an ion conductor that ensures a strong electrolyte layer with high material strength, and stabilizes the ion conductivity electric conductivity for a prolonged time. **SOLUTION:** A material obtained by introducing an acid functional group like sulfonic acid group into an inorganic material such as silica by chemical bonding is combined with a polymer electrolyte material such as perfluorosulphonic group polymer. The inorganic material combined with the acid functional group may be combined with a polymer containing an acid functional group or a polymer not containing such acid functional group. In the latter, the acid functional group of the inorganic material imparts ion conductivity as the electrolyte group.

<高分子電解質型燃料電池セルの電流電圧特性>

